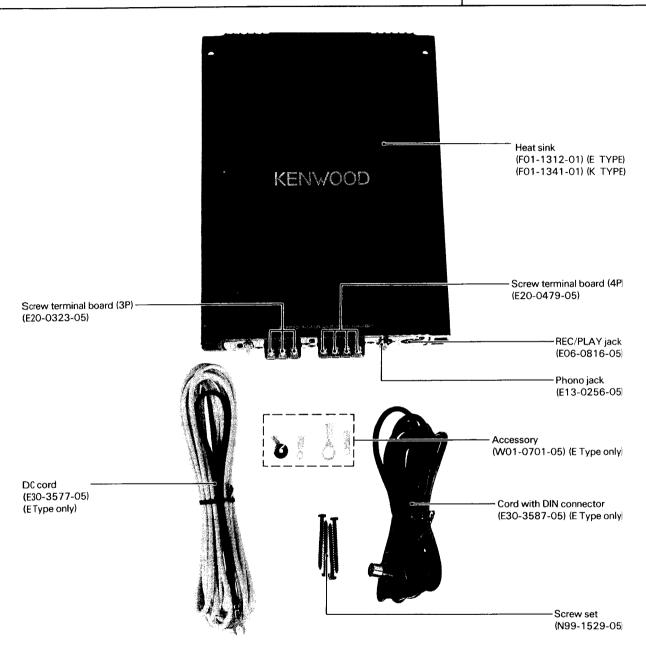
KAC-821 SERVICE MANUAL



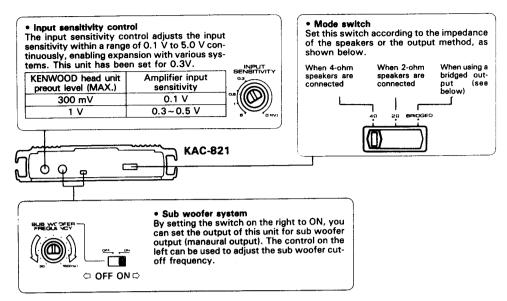
©1989-8 PRINTED IN JAPAN B51-6079-00(B)2984



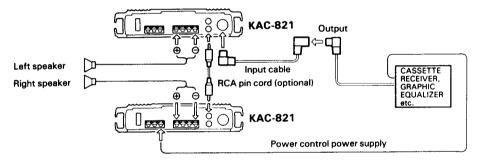
CONTENTS

| USE OF THE OPERATION PANEL | | PC BOARD (Component side view) | 9 |
|----------------------------|---|--------------------------------|-----|
| ACCORDING TO SYSTEM TYPE | 2 | PC BOARD (Foil side view) | 10 |
| CONNECTIONS | 3 | SCHEMATIC DIAGRAM | 11 |
| DISASSEMBLY FOR REPAIR | 4 | EXPLODED VIEW | 14 |
| BLOCK DIAGRAM | 5 | PARTS LIST | 15 |
| CIRCUIT DESCRIPTION | 6 | PACKING | 19 |
| | | SPECIFICATIONS BACK (V | /ER |

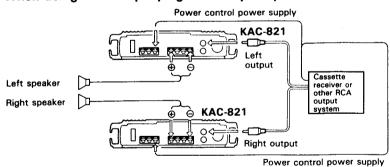
USE OF THE OPERATION PANEL ACCORDING TO SYSTEM TYPE



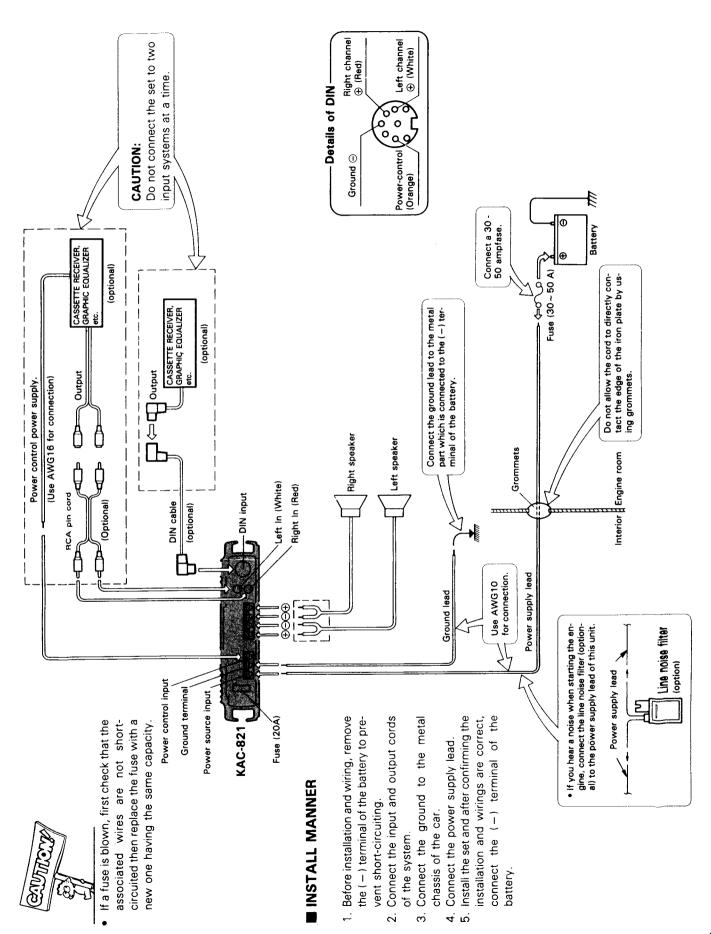
- \blacksquare This unit is provided with a bridged output function which enables you to double the unit's power output. (for 4 Ω speakers)
 - When using a KENWOOD DIN output system:



• When using an RCA pin-plug cord output system:



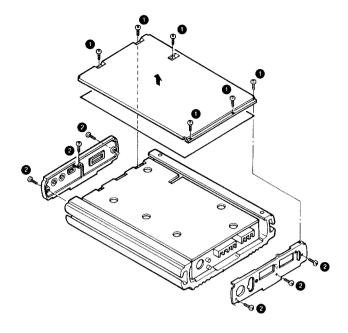
CONNECTIONS



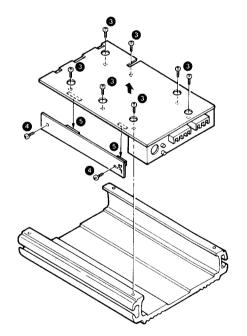
DISASSEMBLY FOR REPAIR

- 1. Remove the six screws

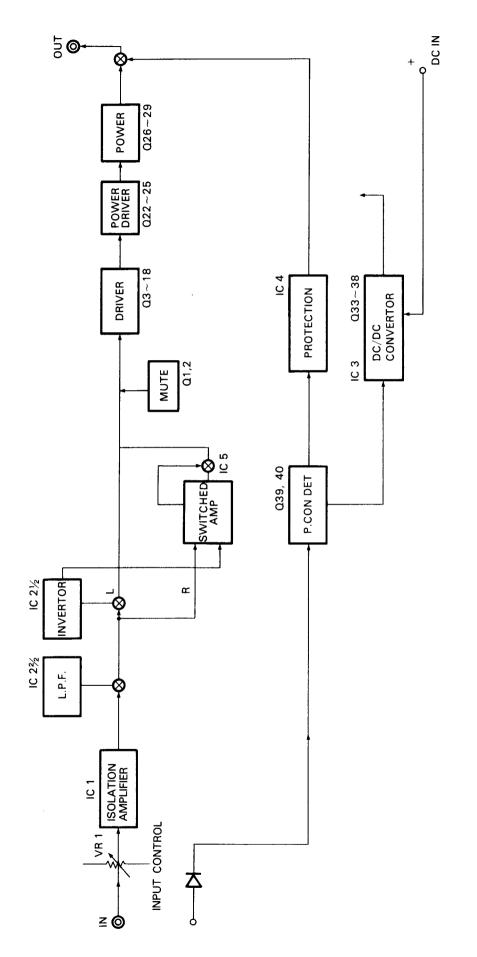
 of the bottom plate and detach it
- 2. Remove the six screws ② of the front and rear panels, and detach them.



- 3. Remove the seven screws 3 and disconnect the PC board.
- 4. Remove the two screws **4** or the PC board and disconnect it from the connector . . . **5** .



BLOCK DIAGRAM





CIRCUIT DESCRIPTION

Description of Component

| Components | Use/Function | Operation/Condition/Interchangeability |
|------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Q1,2 | Input mute | Operated at a timing earlier than the relay at amplifier OFF to turn OFF the relay with no signal. |
| Q3~6 | Input differential amplifier | To one input terminal, an input is applied, and to the other input terminal, a negative feedback is applied, thus determining the amplifier gain. |
| Q7~10 | Second-stage differential amplifier | |
| Q11~14 | Third-stage differential amplifier | |
| Q15,16 | Current mirror | Load on Q13 and Q14 in the third-stage differentiation. |
| Q17,18 | Measure against heat | Gain Pc to prevent rise in temperature. |
| Q19 | AVR | +20 V AVR |
| Q20,21 | Temperature compensation | |
| Q22~25 | Power drive stage | |
| Q26~29 | Power stage | |
| Q30~32 | Current detection | Detect overcurrent to control protection IC. |
| Q33~38 | Switching power stage | |
| Q39 | Power switch | When Q40 turns ON, Q39 turns ON to supply power. |
| Q40 | Switch driver | Detects P-CON and then turns ON. |
| Q41 | AVR | 20 V AVR |
| Q42 | Mute drive | Receives the signal of IC4 pin 6 active "L", and then turns ON. |
| Q43 | Switch drive | Channel selection of IC5 |
| Q44,45 | Switching driver | |
| IC1 | Isolation amplifier | |
| IC2 | Inversion circuit/subwoofer | BTL's inversion circuit/subwoofer LPF |
| IC3 | Switching regulator controller | Provides a dead time to the switching wave. |
| IC4 | Protection | Overload, DC offset and P-CON detection. |
| IC5 | Switched operation amplifier | At the "BRIDGE" position, Q43 turns OFF to send the L-ch signal inversion to R-ch. |

CIRCUIT DESCRIPTION

• About "BRIDGE" position

When the position switch (S2) on the panel is set to "BRIDGE", the BTL output is engaged, thus permitting twice the output level.

When S2 is with 4-ohms or 2-ohms, as regards signals, the L-ch signal goes to the driver as it is after passing an isolation amplifier (IC1), and the R-ch signal goes to the driver by way of a buffer of IC5.

When S2 is set to "BRIDGE", Q43 turns OFF, and IC5 is switched so that the inversion of the L-ch signal by IC2 (1/2) is supplied to R-ch on and after the driver stage. As to L-ch, the L-ch signal is supplied as it is.

Subwoofer cutoff frequency

The subwoofer cutoff frequency can be varied between 30 Hz and 150 Hz by use of VR2.

ADJUSTMENT/REGLAGE/ABGLEICH

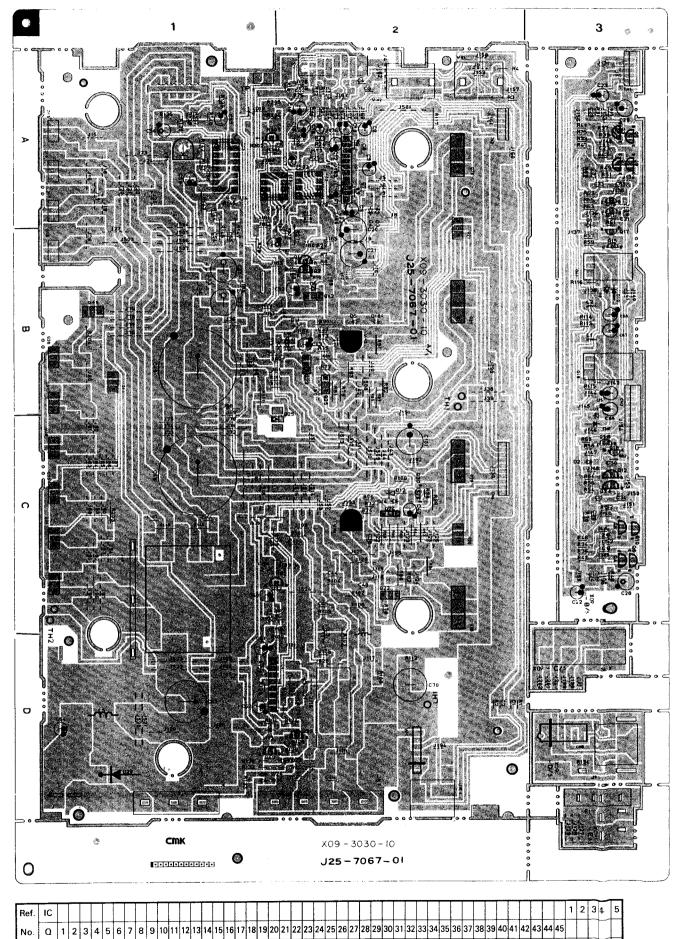
| No. | ITEM | INPUT SETTINGS | OUTPUT SETTINGS | AMPLIFIER SETTINGS | ALIGMENT POINTS | ALIGN FOR | FIG. |
|--------|--------------------|-------------------|---------------------------------------------|-----------------------|--------------------|-----------|------|
| Connec | t a cassette deck. | | <u> </u> | T | T | | |
| 1 | IDLE Current | _ | Connect a DC voltmeter to: TP1 (L, R) | VOLUME: 0 | VR3 (L) VR4 (R) | 2 mV | (a) |

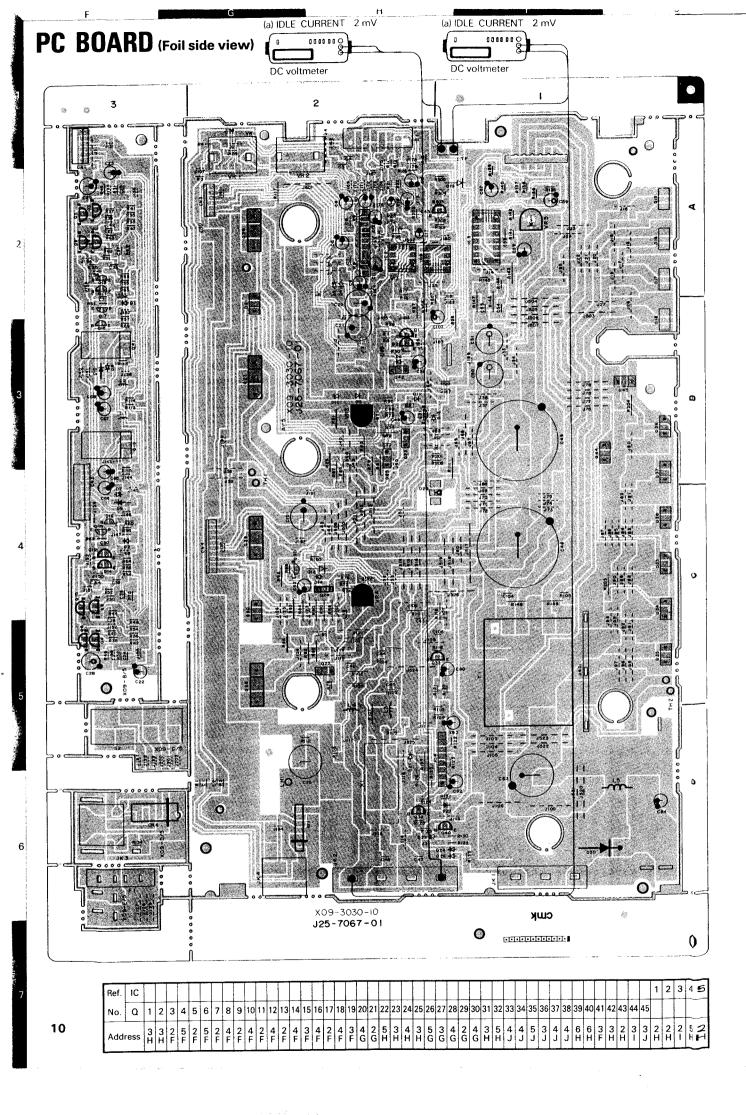
| N° | ITEM | REGLAGE DE L'ENTREE | REGLAGE DE LA SORTIE | REGLAGE DE L'AMPLIFICATEUR | POINTS L'ALIGNEMENT | ALIGNER POUR | FIG. |
|--------|----------------------------|------------------------|-----------------------------------------------|-------------------------------|------------------------|--------------|------|
| Raccor | der une Platine à cassette |). | | | | | т — |
| 1 | COURANT DE POLARISATION | - | Raccorder un voltmètre CC à: TP1 (G, D) | VOLUME: 0 | VR3 (G) VR4 (D) | 2 mV | (a) |

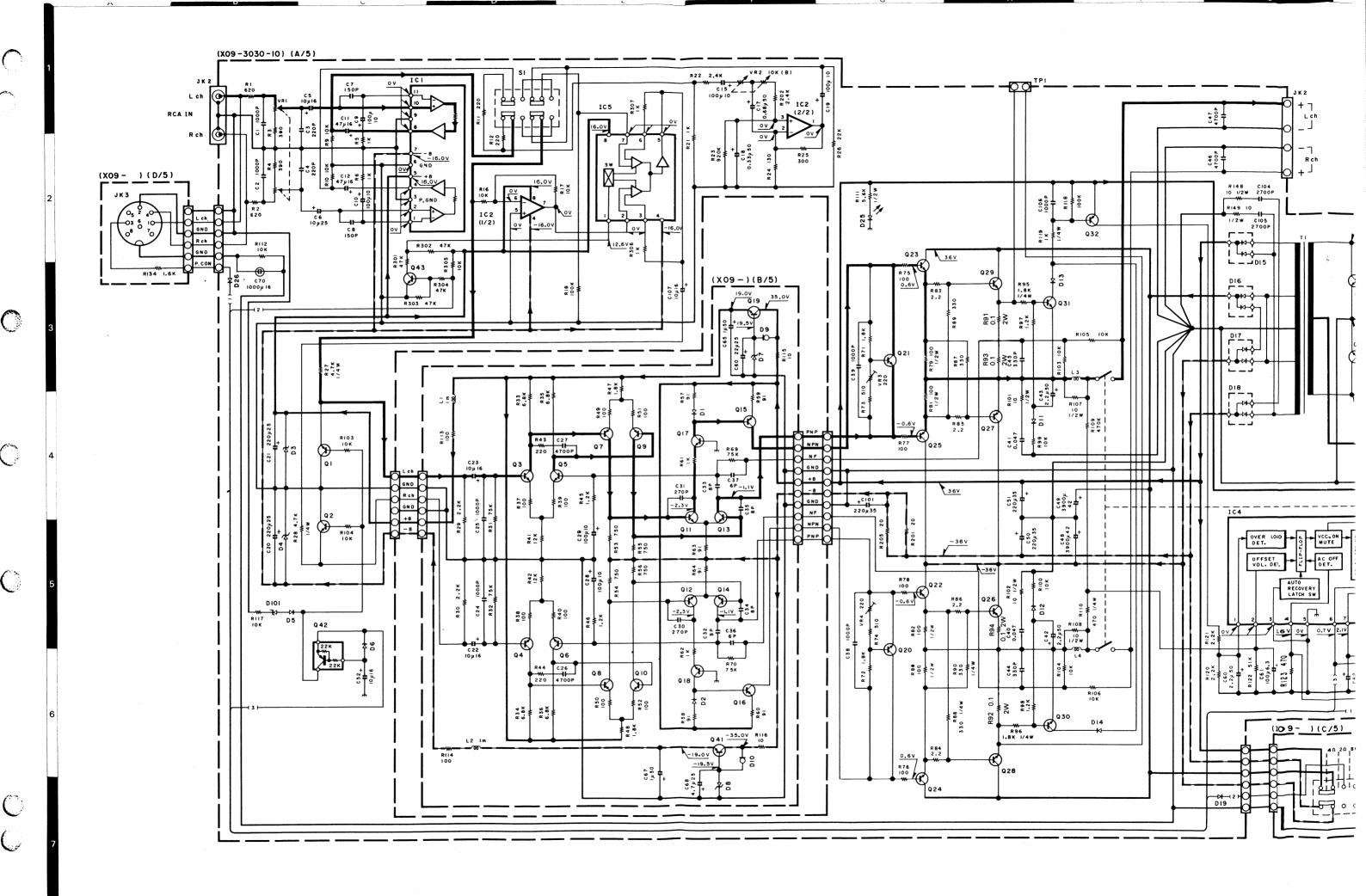
| NR. | GEGENSTAND | EINGANGS- EINSTELLUNG | AUSGANGS- EINSTELLUNG | VERSTÄRKER Einstellung | ABGLEICH- PUNKTE | ABGLEICHEN FUR | ABB. |
|---------|-------------------------|--------------------------|-----------------------------------------------------------------|---------------------------|---------------------|----------------|------|
| Ein Kas | settendeck anschließen. | | | | | | |
| 1 | LEERLAUFSTROM | - | Einen Gleichstrom-Voltmeter anschließen an: TP1 (L, R) | VOLUME: 0 | VR3 (L) VR4 (R) | 2 mV | (a) |

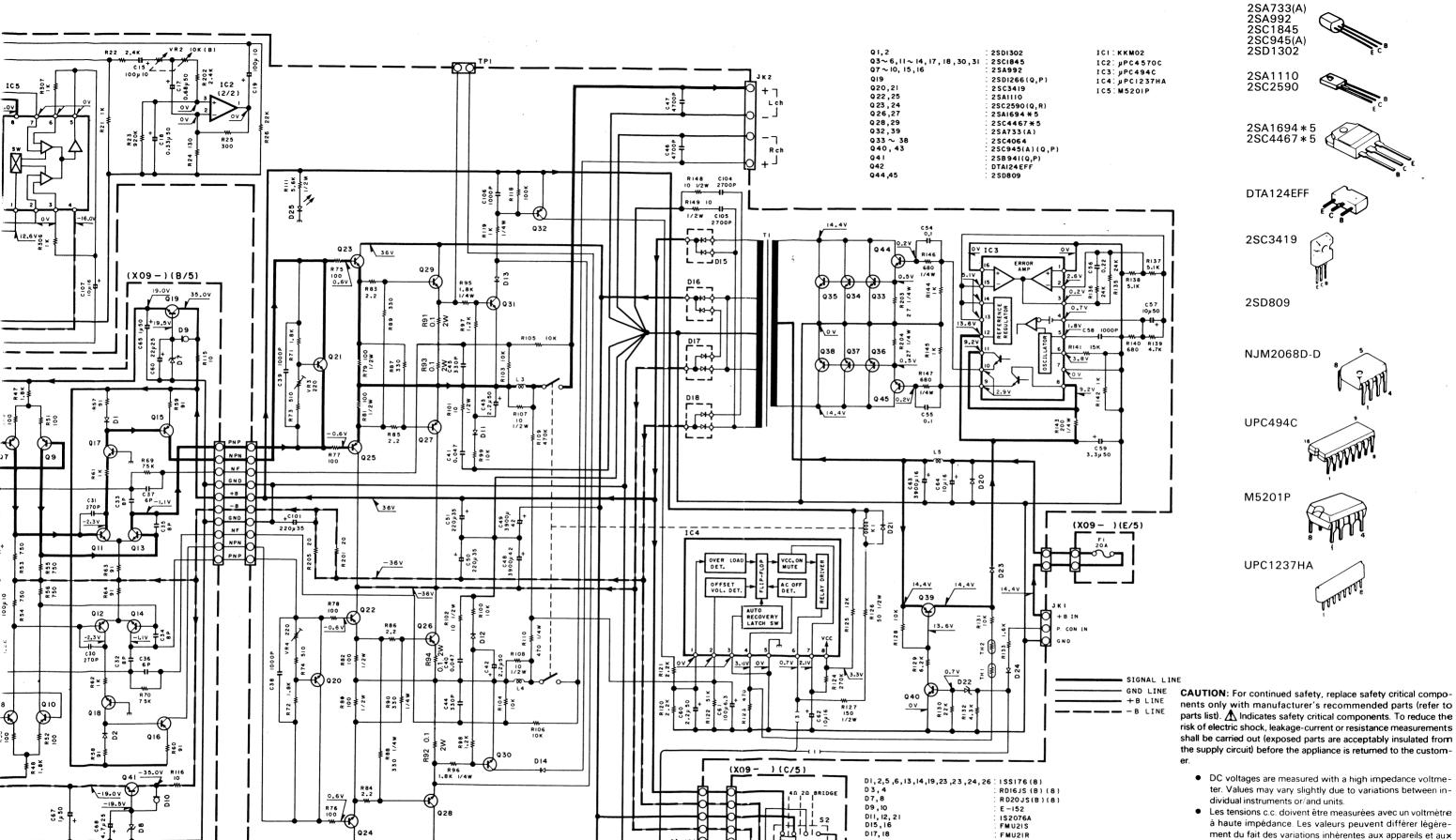
(a) → page 10

PC BOARD (Component side view)









—Ы— D19

ting the second second

D17, 18

D22,101

D20

• Les tensions c.c. doivent être measurées avec un voltmètre

Y08-3900-10

à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

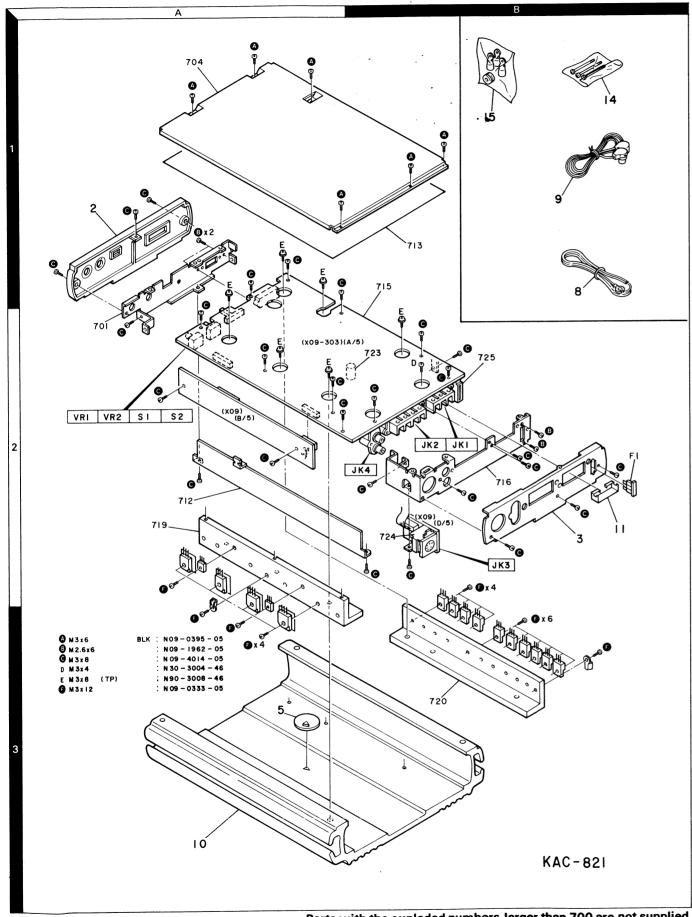
KAC-821(K)

RM4ZLF-JI

RD5.IJS(B2)(8) B30-1130 (LED)

KAC-821

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

★ New Parts Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

| Ref. No. | Address | Parts | | s No. | Description 部 品 名 / 規 格 | Desti- Re- nation mark 仕 向備料 |
|-------------------------------------------------|----------------------------------------|-----------|----------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------|
| 参照番号 | 位置 | 新 | 部 品 | 番 号 | | 在 (B) MR 2 |
| | | | | K | AC-821 | |
| 2 · 3 | 1 A 2 B | * | A20-7529 A23-500 | | PANEL REAR PANEL | |
| 5 - - - | 3A | * | B19-0818 B44-2168 B44-2168 B46-0108 B50-7918 | 3-04 4-04 0-10 | LIGHTING BOARD UPC CODE LABEL UPC CODE LABEL WARRANTY CARD INSTRUCTION MANUAL | К |
| - - - | | * | B50-791 B50-791 B58-080 | 3-00 | INSTRUCTION MANUAL INSTRUCTION MANUAL CAUTION CARD (210X148,DBP) | EEE |
| 8 9 10 10 11 F1 | 1B 1B 3A,3B 3A,3B 2B 2B | * * * * * | E30-357 E30-358 F01-134 F01-131 F07-100 F05-203 | 7-05 1-01 2-01 8-04 | DC CORD CORD WITH DIN CONNECTOR HEAT SINK HEAT SINK COVER FUSE (20A) | 8 KE B |
| - - - - | | * * * * * | H01-906 H01-906 H03-307 H03-308 H10-431 | 3-04 4-04 1-04 | ITEM CARTON CASE ITEM CARTON CASE OUTER CARTON CASE OUTER CARTON CASE POLYSTYRENE FOAMED FIXTURE | К Е К Е К |
| - - - | | * | H10-431 H25-032 H25-033 | 1-04 | POLYSTYRENE FOAMED FIXTURE PROTECTION BAG (600X315X0.03) PROTECTION BAG (170X250X0.03) | Е |
| 14 A B C D | 1B 1A,1B 2B 1A,2B 2B | * | N99-152 N09-039 N09-196 N09-401 N30-300 | 5-05 2-05 4- 05 | SCREW SET TAPTITE SCREW (M3X6) TAPTITE SCREW (M2.6X6) TAPTITE SCREW (3X8) PAN HEAD MACHINE SCREW | |
| Е | 2A,2B | | N90-300 | 8-46 | TP HEAD MACHINE SCREW | |
| 15 | 1B | * | W01-070 | 1-05 | ACCESSORY | Е |
| | | | AUDIO | UNIT (X |)9-3030-10: K, 0-11: E) | |
| D25 | | * | B30-132 | 1-05 | LED(RED) | |
| C1 ,2 C3 ,4 C5 C6 C7 ,8 | | | CK45FB1 CC45FSL CE04DW1 CE04DW1 CC45SL1 | 1H221J C100M E100M | CERAMIC 1,000PF K CERAMIC 220PF J ELECTRO 10UF 16WV ELECTRO 10UF 25WV CERAMIC 150PF J | |
| C9 ,10 C11 ,12 C15 C17 C18 | | | C90-164 CE04DW1 CE04DW1 CE04CW1 CE04CW1 | C330M A101M HR68M | ELECTRO 100UF 10WV ELECTRO 33UF 16WV ELECTRO 100UF 10WV ELECTRO 0.68UF 50WV ELECTRO 0.33UF 50WV | |
| C19 C20 ,21 C22 ,23 C24 ,25 C26 ,27 | | | CE04DW1 CE04DW1 CE04DW1 CF92FV1 CF92FV1 | E221 M C100 M H102J | ELECTRO 100UF 10WV ELECTRO 220UF 25WV ELECTRO 10UF 16WV MF 1000PF J MF 4700PF J | |
| C28 ,29 C30 ,31 | | | C90-164 CC45FSL | | ELECTRO 100UF 10WV CERAMIC 270PF J | |

E: Scandinavia & Europe K: USA U: PX(Far East, Hawaii) T: England M: Other Areas

UE : AAFES(Europe) X: Australia

× New Parts

PARTS LIST

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht gellefert.

| Ref. No. | Address | | | Description | Desti- | Re- |
|-------------------------------------------------|----------------------------------------|------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------|-------------|
| 参照番号 | 位置 | Parts 新 | 部品番号 | 部品名/規格 | | marks 備考 |
| | | | | (AC-821 | | J |
| 2 · 3 | 1 A 2B | * | A20-7529-02 A23-5004-03 | PANEL REAR PANEL | | |
| 5 - - - | 3A | * | B19-0818-04 B44-2163-04 B44-2164-04 B46-0100-10 B50-7910-00 | LIGHTING BOARD UPC CODE LABEL UPC CODE LABEL WARRANTY CARD INSTRUCTION MANUAL | К | |
| - - - | | * | B50-7912-00 B50-7913-00 B58-0803-13 | INSTRUCTION MANUAL INSTRUCTION MANUAL CAUTION CARD (210X148,DBP) | E E E | |
| 8 9 10 10 11 F1 | 1B 1B 3A,3B 3A,3B 2B 2B | * * * * * | E30-3577-05 E30-3587-05 F01-1341-01 F01-1312-01 F07-1008-04 F05-2038-05 | DC CORD CORD WITH DIN CONNECTOR HEAT SINK HEAT SINK COVER FUSE (20A) | E E KE E | |
| - - - - | | * * * * | H01-9062-04 H01-9068-04 H03-3074-04 H03-3081-04 H10-4314-02 | ITEM CARTON CASE ITEM CARTON CASE OUTER CARTON CASE OUTER CARTON CASE POLYSTYRENE FOAMED FIXTURE | K E K E K | |
| - - - | | * | H10-4315-02 H25-0321-04 H25-0336-04 | POLYSTYRENE FOAMED FIXTURE PROTECTION BAG (600X315X0.03) PROTECTION BAG (170X250X0.03) | Е | |
| 14 A B C D | 1B 1A,1B 2B 1A,2B 2B | * | N99-1529-05 N09-0395-05 N09-1962-05 N09-4014-05 N30-3004-46 | SCREW SET TAPTITE SCREW (M3X6) TAPTITE SCREW (M2.6X6) TAPTITE SCREW (3X8) PAN HEAD MACHINE SCREW | | |
| Е | 2A,2B | | N90-3008-46 | TP HEAD MACHINE SCREW | | |
| 15 | 1 B | * | W01-0701-05 | ACCESSORY | Е | |
| D25 | f | * | AUDIO UNIT (X (B30-1321-05 | 09-3030-10: K, 0-11: E) | 1 | |
| C1 ,2 C3 ,4 C5 C6 C7 ,8 | | | CK45FB1H102K CC45FSL1H221J CE04DW1C100M CE04DW1E100M CC45SL1H151J | CERAMIC 1.000PF K CERAMIC 220PF J ELECTRO 10UF 16WV ELECTRO 10UF 25WV CERAMIC 150PF J | | |
| C9 ,10 C11 ,12 C15 C17 C18 | | | C90-1640-05 CE04DW1C330M CE04DW1A101M CE04CW1HR68M CE04CW1HR33M | ELECTRO 100UF 10WV ELECTRO 33UF 16WV ELECTRO 100UF 10WV ELECTRO 0.68UF 50WV ELECTRO 0.33UF 50WV | | |
| C19 C20 ,21 C22 ,23 C24 ,25 C26 ,27 | | | CE04DW1A101M CE04DW1E221M CE04DW1C100M CF92FV1H102J CF92FV1H472J | ELECTRO 100UF 10WV ELECTRO 220UF 25WV ELECTRO 10UF 16WV MF 1000PF J MF 4700PF J | | |
| C28 ,29 C30 ,31 | | | C90-1640-05 CC45FSL1H271J | ELECTRO 100UF 10WV CERAMIC 270PF J | | |

E: Scandinavia & Europe K: USA

P: Canada

U: PX(Far East, Hawaii) T: England

M: Other Areas

UE : AAFES(Europe) X: Australia

Contracting the Contracting Contracting

⚠ indicates safety critical components.

★ New Parts

PARTS LIST

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

| Ref. No. | Address | New Part | | Des | scription | | Desti- | R |
|-----------------------------------------------------|----------------------|-------------|-------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------|----------------------------------------------|---------------|---|
| 参照番号 | 位置 | | · | 部品 | 名/規 | 格 | nation 仕 向 | 伽 |
| C32 -35 C36 ,37 C38 ,39 C40 ,41 C42 ,43 | | | CC45FSL1H080D CC45FSL1H060D CF92FV1H102J CF92V1H473J CE04DW1H2R2M | CERAMIC MF MF | 8.0PF 6.0PF 1000PF 0.047UF 2.2UF | D D J J 50WV | | |
| C44 ,45 C46 ,47 C48 ,49 C50 ,51 C52 | | * | CC45FSL1H331J CF92FV1H472J C90-2517-05 CE04DW1V221M CE04DW1C100M | MF ELECTRO ELECTRO | 330PF 4700PF 3900UF 220UF 10UF | J J 42WV 35WV 16WV | | |
| C54 ,55 C56 C57 C58 C59 | | | CF92FV1H104J CE04DW1HR22M CE04DW1C100M CF92FV1H102J CE04DW1H3R3M | ELECTRO ELECTRO MF | 0.10UF 0.22UF 10UF 1000PF 3.3UF | J 50WV 16WV J 50WV | | |
| C60 C61 C62 C63 C64 | | | CE04DW1H2R2M CE04DW0J101M CE04DW1C100M C90-1634-05 CE04DW1C100M | ELECTRO ELECTRO ELECTRO | 2.2UF 100UF 10UF 3900UF 10UF | 50WV 6.3WV 16WV 16WV | | |
| C65 C66 C67 C68 C69 | | | CE04DW1H010M CE04DW1E220M CE04DW1H010M CE04DW1E4R7M CF92FV1H104J | ELECTRO : | 1.0UF 22UF 1.0UF 4.7UF 0.10UF | 50WV 25WV 50WV 25WV J | К | |
| C70 C101 C104,105 C106 C107 | | | C90-1630-05 CE04DW1V221M CF92FV1H272J CF92FV1H102J CE04DW1C100M | ELECTRO 2 MF MF | 1000UF 220UF 2700PF 1000PF 10UF | 16WV 35WV J J 16WV | | |
| JK1 JK2 JK3 JK4 | 2B 2B 2B 2B | * * | E20-0323-05 E20-0479-05 E06-0816-05 E13-0256-05 | SCREW TERMINAL SCREW TERMINAL REC/PLAY JACK PHONO JACK | | | | |
| L1 ,2 L3 ,4 L5 T1 | | * * | L33-0344-15 L39-0085-05 L33-0903-05 L19-0502-05 | CHOKE COIL PHASE-COMPENSA LINE FILTER CO TRANSFORMER FO | DIL | | | |
| C F | 2A,2B 2A,3B | * | N09-4014-05 N09-0333-05 | TAPTITE SCREW TAPPING SCREW | (3X8) (3X12) | | | |
| R79 -82 R91 -94 R101,102 R107,108 R111 | | | RD14DB2H101J R92-0205-05 RD14DB2H100J RD14DB2H100J RD14DB2H562J | METAL-PLATE C SMALL-RD 1 SMALL-RD 1 | 100 0.1 10 10 5.6K | J 1/2W K 2W J 1/2W J 1/2W J 1/2W | | |
| R126,127 R148,149 VR1 VR2 VR3 ,4 | | * | RD14DB2H151J RD14DB2H100J R10-3030-05 R10-3632-05 R12-0092-05 | | | J 1/2W J 1/2W | | |
| K1 S1 S2 | | * | S51-2078-05 S31-4641-05 S31-2622-05 | MAGNETIC RELAY SLIDE SWITCH SLIDE SWITCH | ! | | | |

E: Scandinavia & Europe K: USA

P: Canada M: Other Areas

U: PX(Far East, Hawaii) T: England

UE : AAFES(Europe) X: Australia

PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

| Ref. No. | Address | Parts | Parts No. | Description | nation | 1 |
|-------------------------------------------------|---------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 参照番号 | 位置 | 新 | 部品番号 | 部品名/規格 | 仕 向 | 備考 |
| D1 ,2 D3 ,4 D5 ,6 D7 ,8 D9 ,10 | | | 1SS176 RD16JS(B) 1SS176 RD20JS(B) E-152 | DIODE ZENER DIODE DIODE ZENER DIODE CONSTANT CURRENT DIODE | | |
| D11 D12 D13 ,14 D15 ,16 D17 ,18 | | | 1SS176 1S2076A. 1SS176 FMU21S FMU21R | DIQDE DIQDE DIQDE DIQDE DIQDE | | |
| D19 D20 D21 D22 D23 ,24 | | | 1S2076A RM4ZLF-J1 1SS176 RD5.1JS(B2) 1SS176 | DIQDE DIQDE DIQDE ZENER DIQDE DIQDE | | The same of the sa |
| D26 D101 IC1 IC2 IC3 | | * | 1SS176 RD5.1JS(B2) KKNO2 NJM2068D-D UPC494C | DIODE ZENER DIODE IC IC(OP AMP X2) IC(SWITCHING REGULATOR) | | Mary and the second |
| IC4 IC5 Q1 ,2 Q3 -6 Q7 -10 | | | UPC1237HA M5201P 2SD1302(S) 2SC1845(F,E) 2SA992(F,E) | IC(POWER AMP) IC(OP AMP X2) TRANSISTOR TRANSISTOR TRANSISTOR | | |
| 911 912 913 914 915 | | | 2SC1845(F,E) 2SC1845(F,E) 2SC1845(F,E) 2SC1845(F,E) 2SA992(F,E) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| 916 917 ,18 919 920 ,21 922 | | * | 2SA992(F,E) 2SC1845(F,E) 2SD1266BD(Q,P) 2SC3419 2SA1110(Q,R) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| 923 ,24 925 926 ,27 928 ,29 930 ,31 | | | 2SC2590(Q,R) 2SA1110(Q,R) 2SA1694*5 2SC4467*5 2SC1845(F,E) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| Q32 Q33 -38 Q39 Q40 Q41 | | * | 2SA733(A)(Q,P) 2SC4064(0,Y) 2SA733(A)(Q,P) 2SC945(A)(Q,P) 2SB941BD(Q,P) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| Q42 Q43 Q44 ,45 TH1 ,2 | | * | DTA124EFF 2SC945(A)(Q,P) 2SD809(K,F) PTH487A01BC222T | DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR POSITIVE RESISTOR | | |
| | | | | | | |

E: Scandinavia & Europe K: USA

P: Canada

U: PX(Far East, Hawaii) T: England

M: Other Areas

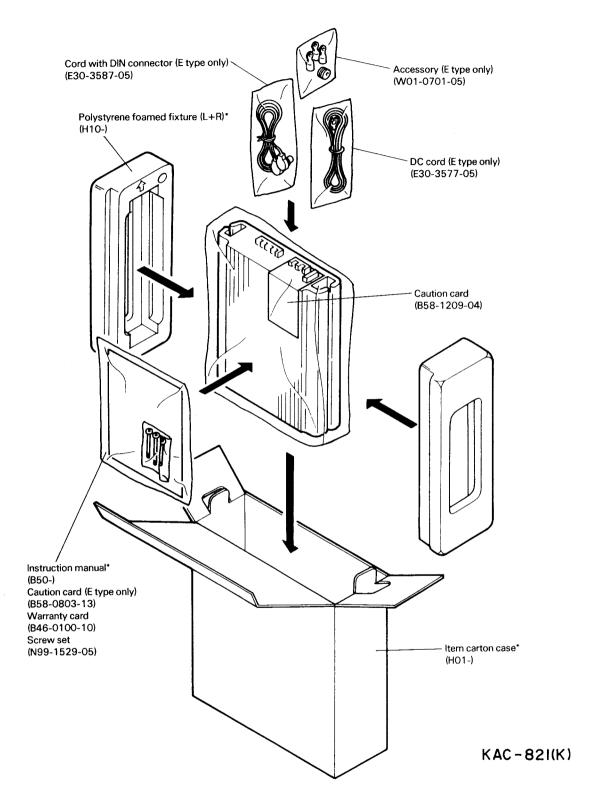
UE : AAFES(Europe)

X: Australia

MEMORANDUM

18

PACKING



^{*} Refer to parts list on page 15.



SPECIFICATIONS

Specifications subject to change without notice.

| Δı | oibı | section | ì |
|----|------|---------|---|
| ~, | JUIU | 30000 | J |

| Max Power Output (1 kHz, 4 Ω) | |
|--------------------------------------------------------------|-------------------------------------------------------|
| Normal | 140 W + 140 W |
| Bridged | 280 W |
| Power Output | |
| Normal (20 Hz \sim 20 kHz, 4 Ω , less than 0.5% THD |)75 W + 75 W |
| Bridged (1 kHz, 4 Ω, 0.5% THD) | |
| Output Power | |
| Normal (1 kHz, 2 Ω, 0.5% THD) | 75 W + 75 W |
| Frequency Response (-3 dB) | |
| Sensitivity (rated output) MAX | |
| · | 5.0 V |
| Signal to Noise Ratio | |
| Input Impedance | |
| Damping Factor (100 Hz) | More than 200 |
| Sub Woofer Frequency | |
| , | |
| General | |
| Operating Voltage | 14.4 V (11~16 V allowable) |
| Current Consumption (MAX.) | |
| Dimensions (W×H×D) | |
| | $(9-1/16 \times 1-15/16 \times 11-13/16 \text{ in.})$ |
| Weight | • • • • • • • • • • • • • • • • • • • • |
| 1109 | |

Kenwood follows a policy of continuous advancements in development For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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